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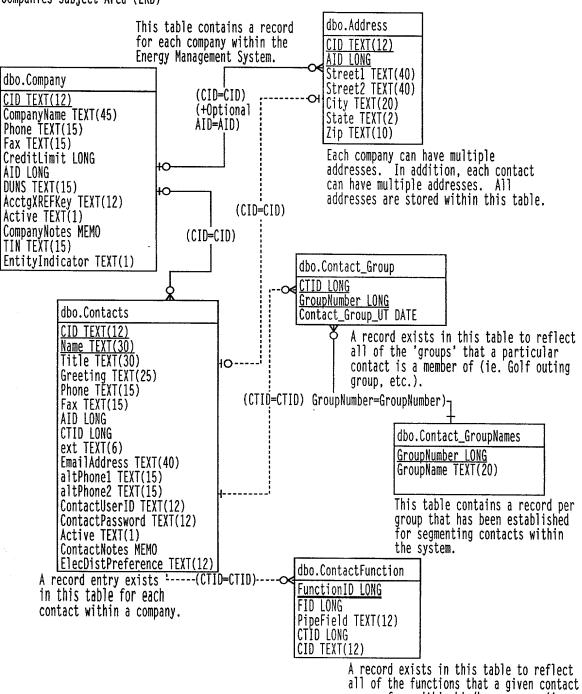
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FIG. 3A

Companies Subject Area (ERD)



may perform within his/her company (ie.

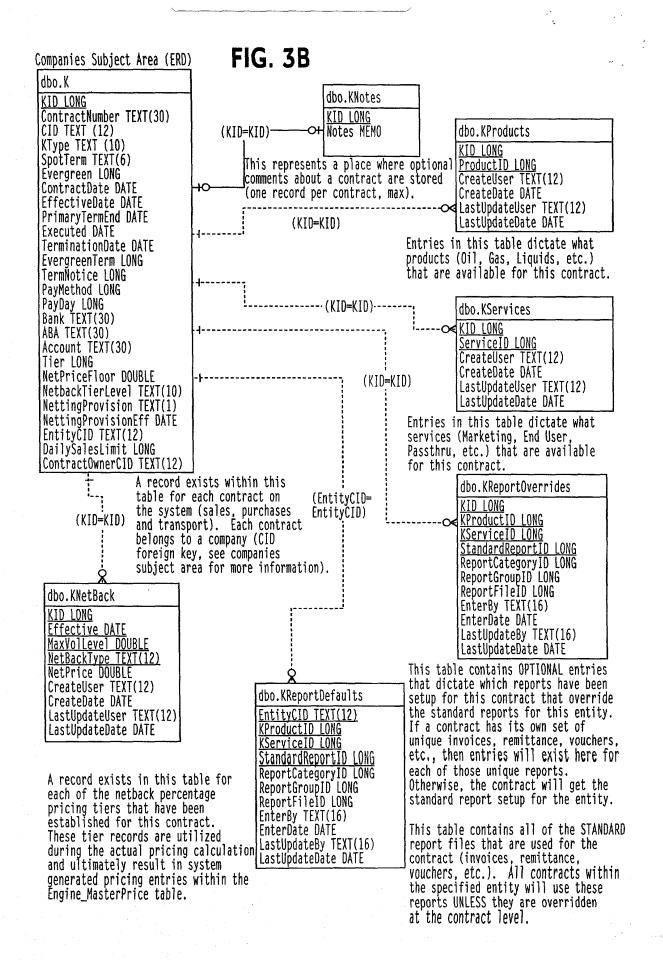
accounting, production, etc.).

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This table contains

a single record, per deal on the system.

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FIG. 3C

FBOSourceCode TEXT(12)

PhysicalSourceCode TEXT(12)

FBOCID TEXT(12)

The PKG field is Deals Subject Area (ERD) (1 of 2) sometimes called PID dbo.Package or VolGroup on other dbo.PackageCorrespondence tables (Engine_Master, PKG LONG PCID LONG Engine, etc.). Each TheirContact LONG CorrespondenceBy TEXT(12) deal on the system is OurContact LONG CorrespondenceDate DATE bound to a given month (ie. a deal never Description TEXT(30) CorrespondenceDirection TEXT(12) StartDate DATE CorrespondenceLocationID LONG extends beyond a gas CorrespondenceFileName TEXT(254) EndDate DATE month). It can be less than a month in CorrespondenceSysFileName TEXT(254)
CorrespondenceFileExtension TEXT (30) Revision LONG Package_Create DATE duration (see StartDate KID LÕNG CorrespondenceShortDescription TEXT(50) CorrespondenceDescription MEMO CorrespondenceType TEXT(20) CorrespondenceMethod TEXT(12) EnterBy TEXT(12) and EndDate columns). CID TEXT(12) DealTypecID LONG VolumeVolatilitydcID LONG PricePerioddcIID LONG InterruptibledcID LONG PackageDBCR LONG EnterDate DATE LastUpdateBy TEXT(12) PackageGasMonth DATE LastUpdateDate DATE SuppressInvoices TEXT(1) CorrespondenceStatus TEXT(20) AccountingDueDate DATE CorrespondenceReportQueueID LONG PackageStatus TEXT(16) Package_CreateBy TEXT(12) LastUpdateBy TEXT(12) LastUpdateDate DATE FinancialPKG LONG KProductID LONG KServiceID LONG This table contains references to all RolloverIndicator TEXT(1) standard correspondence (electronic RolloverPrevPKG LONG copies of reports) for the deal. RolloverNextPKG LONG ---(PKG=PID)----dbo.PriceDesc RolloverSetupDate DATE RolloverSetupBy TEXT(12) RolloverVolumes TEXT(1) PID LONG Description MEMO dbo.PackageCosts RolloverPrices TEXT(1) PCID LONG PriceComment MEMO RolloverCosts TEXT(1)
VolumeCalculationsSuppressed TEXT(1) PriceDesc_UU TEXT(12) PriceDesc_UT DATE PKG LONG (PKG=PKG) STID LONG FinancialMID LONG CostLevel TEXT(12) This table a place for FinancialNomAmount DOUBLE CostMID LONG textual descriptions FinancialActAmount DOUBLE CostBasis TEXT(40) and comments about RolloverVolumePopMethod TEXT(25) CostRateOrAmount DOUBLE pricing/etc. RolloverTermDate DATE CreateUser TEXT(16) ParkOrLoan TEXT(1) CreateDate DATE LastUpdateUser TEXT(16) (DealTypedcID, VolumeVolatilitydcID, LastUpdateDate DATE PricePerioddcID, InterruptibledcID) CostDescription MEMO CID TEXT(12) ApplyCosts TEXT(1) dbo.rDealClassRules SeparateCost TEXT(1) DealContext LONG
DealTypedcID LONG
VolumeVolatilitydcID LONG
PricePerioddcID LONG
InterruptibledcID LONG
IncludeInWasp TEXT(10) IncludeOnVoucher TEXT(1) ApplyNetback TEXT(1) This table contains entries for any OPTIONAL other costs that may be associated with a deal.

This table represents a matrix of all

possible combinations of deal classifications. Calculation rules (such as WASP indicators) are

stored based on these classification combinations.

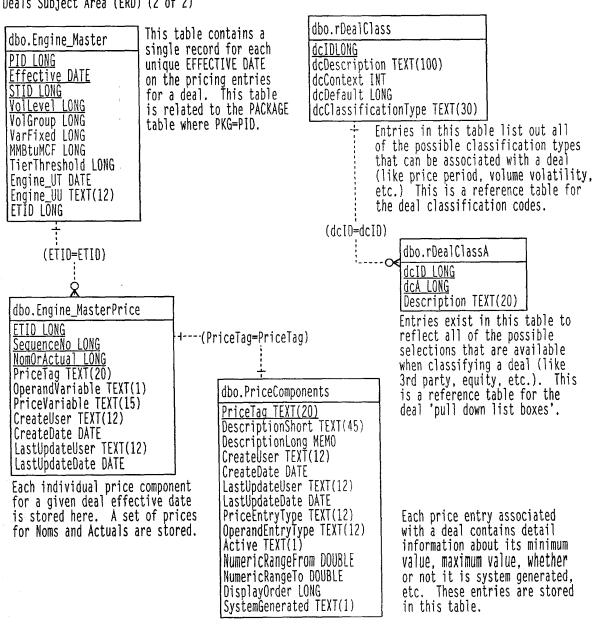
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FIG. 3D

Deals Subject Area (ERD) (2 of 2)



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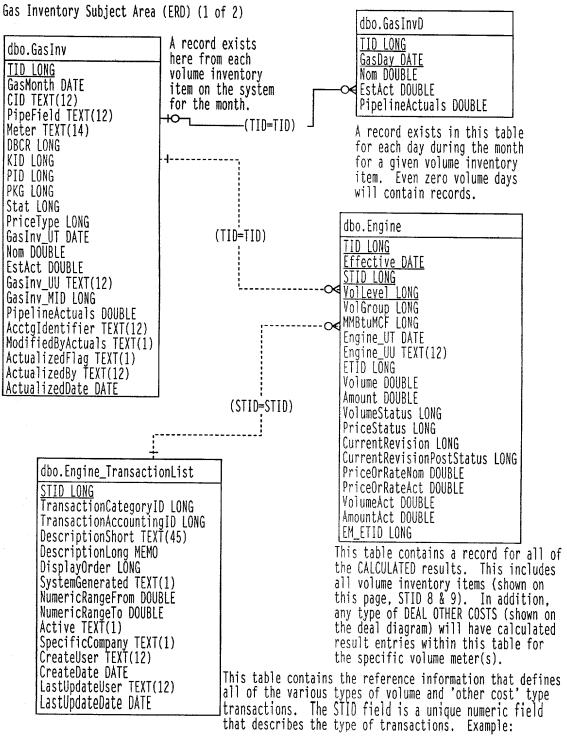
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FIG. 3E



8 = Volume Purchases 9 = Volume Sales etc...

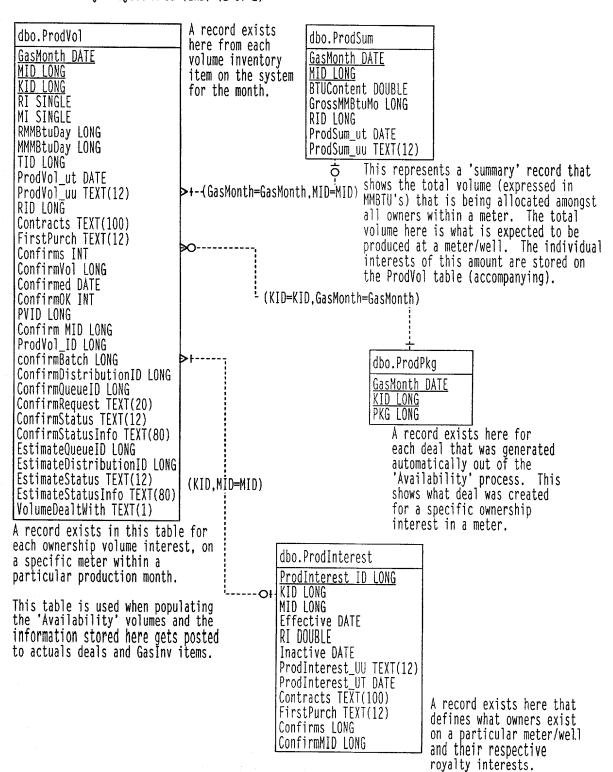
Rules for the population and entry of these types of costs are defined here. The 'Other Cost' information setup for a deal also utilizes this information.

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FIG. 3F

Gas Inventory Subject Area (ERD) (2 of 2)



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FIG. 3G

Operational Subject Area - 1 of 4 (ERD)

dbo.PrinterDef

PrinterNumber LONG
DisplayName TEXT(80)
ServerPrinterName TEXT(80)
InternalPrinter TEXT(1)

All printers defined in the system are stored in this table.

dbo.ExceptionCategories

ExceptionType TEXT(12)
ExceptionNo LONG
ExceptionShort TEXT(45)
ExceptionLong MEMO
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE
ExceptionOrder LONG

This table contains record entries for all of the possible exception reason categories defined within the system. These reasons are based on the type of exception that occurs ('Deal', 'Pricing', etc.).

:- (ExceptionType=ExceptionType, -: ExceptionNo=ExceptionNo)

dbo.ApplicationMessages

ApplicationMessageID LONG ApplicationMessageDate DATE ApplicationMessageText TEXT(255)

This table contains application messages that normally only print to the server console (for example when a calculation is running the messages are written here.

dbo.LogTable

<u>LogEntry LONG</u> LogDate Time DATE LogInfo TEXT(254) This table is used primarily for debugging purposes and is not utilized by any screen or reporting process.

dbo.ExceptionList

ExceptionListID LONG
ExceptionType TEXT(12)
ExceptionKey LONG
ExceptionDate DATE
ExceptionSequence LONG
ExceptionEvent TEXT(45)
ExceptionNo LONG
ExceptionBy TEXT(12)
ExceptionComments MEMO
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE

This table contains the actual exception event entries. The ExceptionKey and sequence columns associate the exception to the entity based on type (ie., PKGID would be the key for ExceptionType = 'DEAL').

dbo.rGasMonth

LockedDate DATE

GasMonth DATE
CurrentStatus TEXT(20)
CurrentSequence LONG
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE
LockedUser TEXT(12)

One record exists in this table for every production month in the system. In addition, this table contains the CURRENT status field ('Availability', 'Sales', etc.).

dbo.rGasMonthStatus

GasMonth DATE
CurrentSequence LONG
Status TEXT(20)
CreateUser TEXT(12)
CreateDate DATE
LastUpdateUser TEXT(12)
LastUpdateDate DATE

This table represents an 'audit' table that captures the production month information EVERYTIME the status is changed. This provides for detail analysis on how long production months are left in a particular status.

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FIG. 3H

Operational Subject Area - 2 of 4 (ERD)

dbo.SEProcessingCodeTypes CodeType TEXT(10) ShortDescription TEXT(50) Description MEMO UserConfigurable TEXT(1) EnterBy TEXT(16) EnterDate DATE LastUpdateBy TEXT(16) LastUpdateDate DATE

CodeType=CodeType)

This table contains a processing code 'type' field for all of the various reference fields on the database. For example, a CodeType of 'CONTRPRDS' represents the contract products type. All SEProcessingCodes with this type represent the available contract products.

dbo.SELocations

LocationID LONG LocationUNCPath TEXT(254) LocationName TEXT(30) LocationDescription MEMO LocationAutoCompress TEXT(1) LocationOrder LONG EnterBy TEXT(16) EnterDate DATE LastUpdateBy TEXT(16) LastUpdateDate DATE

This table contains record entries for all of the locations (server paths) that are used within the system.

dbo.SEAudit AuditID LONG AuditSys TEXT(30) AuditEvent TEXT(30) AuditBy TEXT(16) AuditDateTime DATE AuditText TEXT(255)

This table contains record entries for auditable events that are captured within the system. Reports are written to review this information. An example is the 'Login' attempts and/or the actualization attempts (by pipefield).

dbo.SEProcessingCodes

ProcessingCodeID LONG CodeType TEXT(10) ShortDescription TEXT(50) Description MEMO Required TEXT(1) TypeLimit LONG ValueMask TEXT(254) DisplayOrder LONG EnterBy TEXT(16) EnterDate DATE LastUpdateBy TEXT(16) LastUpdateDate DATE Description 1 MEMO

This table contains a record for each unique processing code on the system. For example a processingcodeid=113 and a CodeType='CONTRPRDS' has a short description of 'Gas'. This represents the gas contract product code.

dbo.SEMessages

MessagesSubsystem TEXT(10) MessagesID LONG MessagesType TEXT(10) MessageDescription MEMO EnterBy TEXT(16) EnterDate DATE LastUpdateBy TEXT(16) LastUpdateDate DATE

This table contains record entries for all of the application messages (error, confirmational, informational, etc.),

dbo.SEImages

ImageType TEXT(12) ImageKey TEXT(16) ImageScreen MEMO ImageReport MEMO ImageShortDescription TEXT(60) ImageDescription MEMO CreateDate DATE CreateUser TEXT(16) LastUpdateDate DATE LastUpdateUser TEXT(16)

This table contains record entries for all standard system graphic images. Letterhead logos, screen graphic logos, etc.

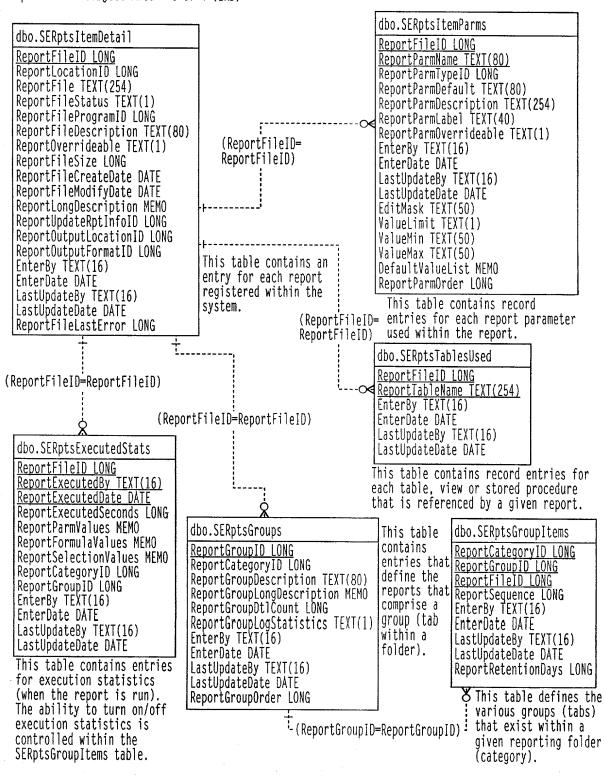
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FIG. 31

Operational Subject Area - 3 of 4 (ERD)



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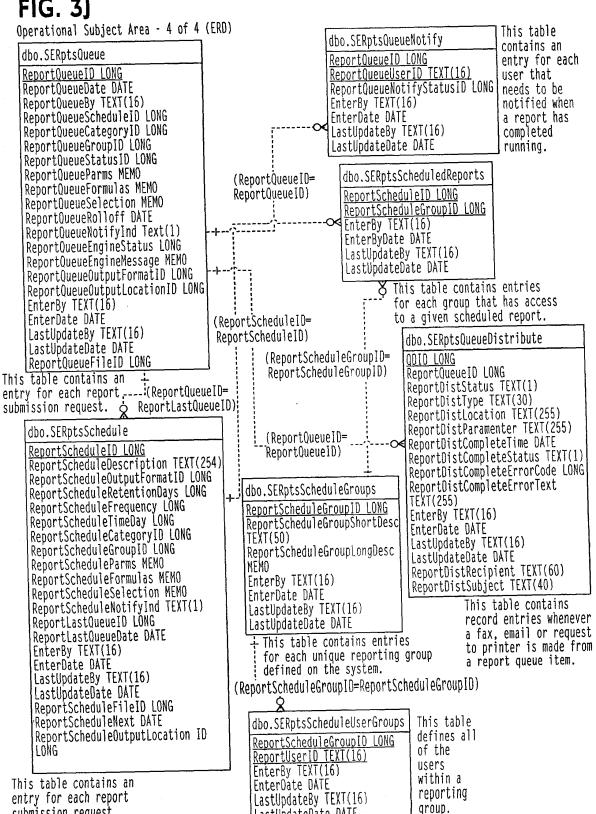
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FIG. 3J

submission request.



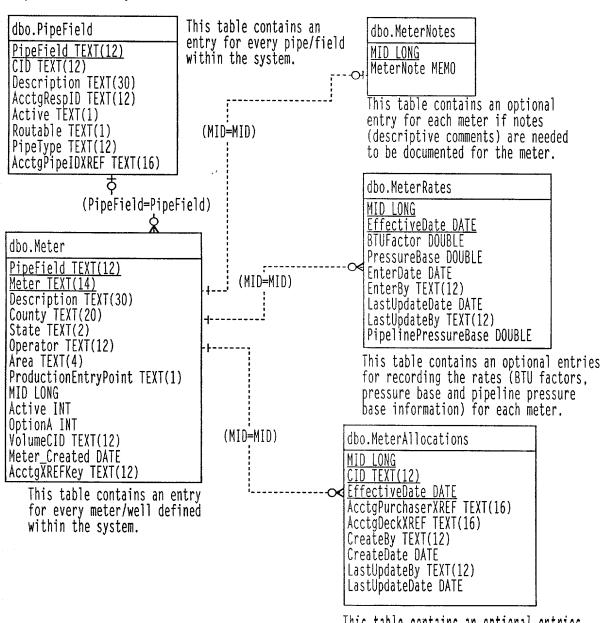
LastUpdateDate DATE

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FIG. 3K

Pipes & Meters Subject Area (ERD)



This table contains an optional entries for recording the allocation information for each specific company. This includes specification of the accounting cross reference field (Decks, and purchaser codes).

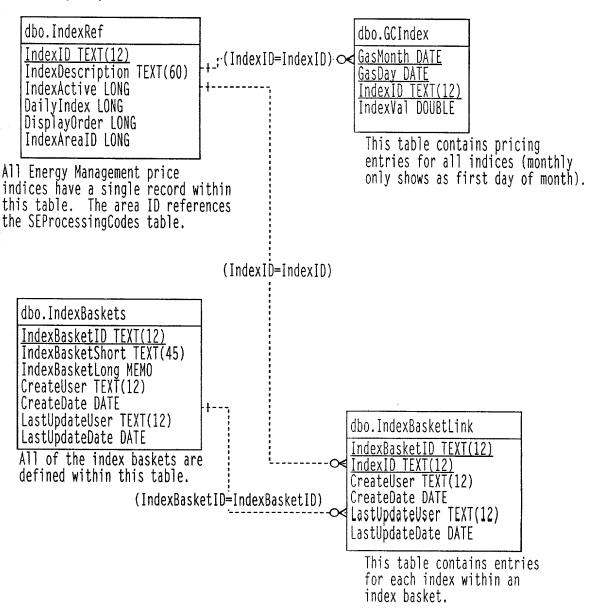
Filed: June 28, 2001

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FIG. 3L

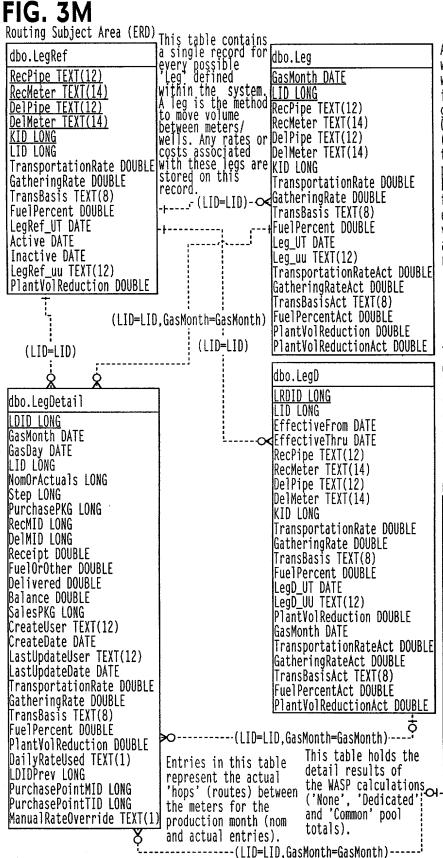
Pricing Subject Area (ERD)



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A record is created within this table whenever actual volume is routed within a given month. The Gas/Inv table (pricetype=3) transactions represent purchase/sale legs. For every purchase there is a sale (dual entry). Any costs for volume using the leg are stored on this record.

This area of the database provides the location for storing a DAILY leg rate for a specific leg in the system. When calculating costs first the daily rates are checked (here). If none found then the monthly rates are used.

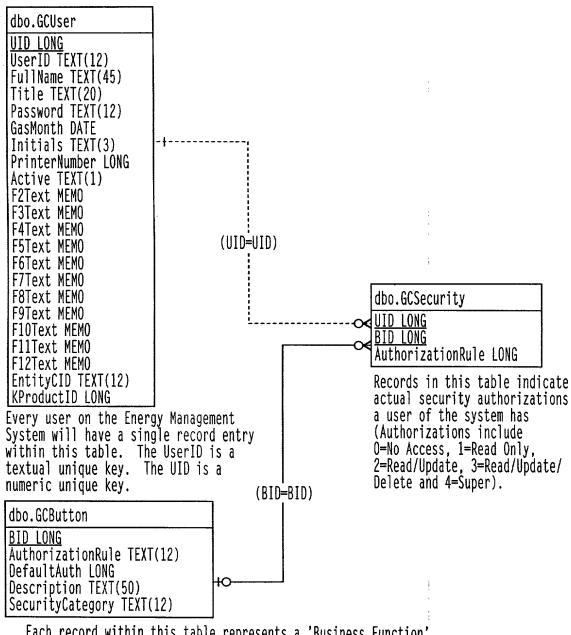
dbo.WASPResolvedRouting ResolvedID LONG GasMonth DATE DelMID LONG RecMID LONG LID LONG NomOrActual LONG Receipt DOUBLE FuelOrOther DOUBLE Delivered DOUBLE TransportAmount DOUBLE GatheringAmount DOUBLE Amount DOUBLE IncludeInWASP TEXT(10)
DedicatedPurchasePKG LONG
Price DOUBLE ResolvedReceipt DOUBLE ResolvedIndicator TEXT(1) ResolvedType TEXT(1)
ResolvedDelivered DOUBLE
EntityCID TEXT(12)
KProductID LONG
KServiceID LONG ResolvedReceiptAmt DOUBLE ResolvedDeliveredAmt DOUBLE

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FIG. 3N

Security Subject Area (ERD)



Each record within this table represents a 'Business Function' within the Energy Management System. These records are used to establish security on the system. Each entry is categorized as either for 'Employee' or 'Company' in order to differentiate between employee access rules and customer access rules.

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₩ Energy Management System

Version (5.06)

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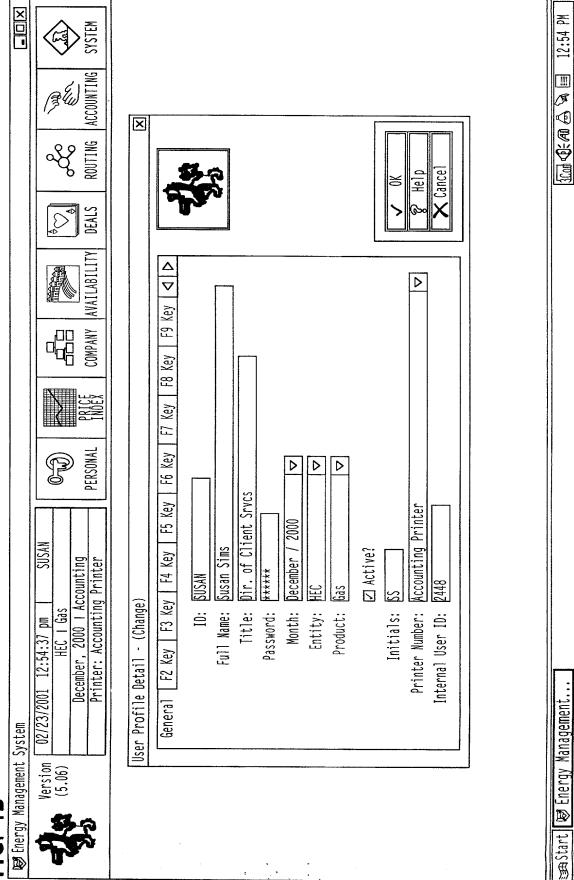








FIG. 4B

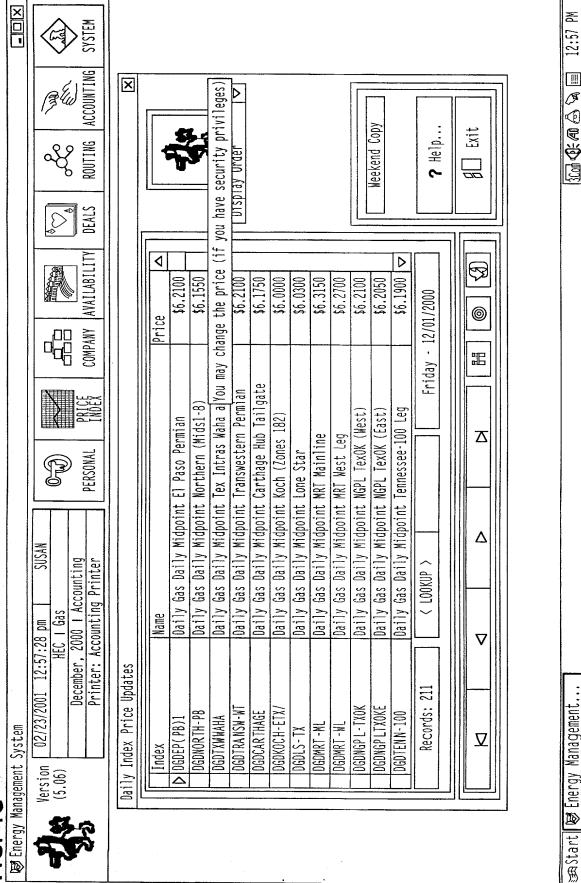


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FIG. 4D

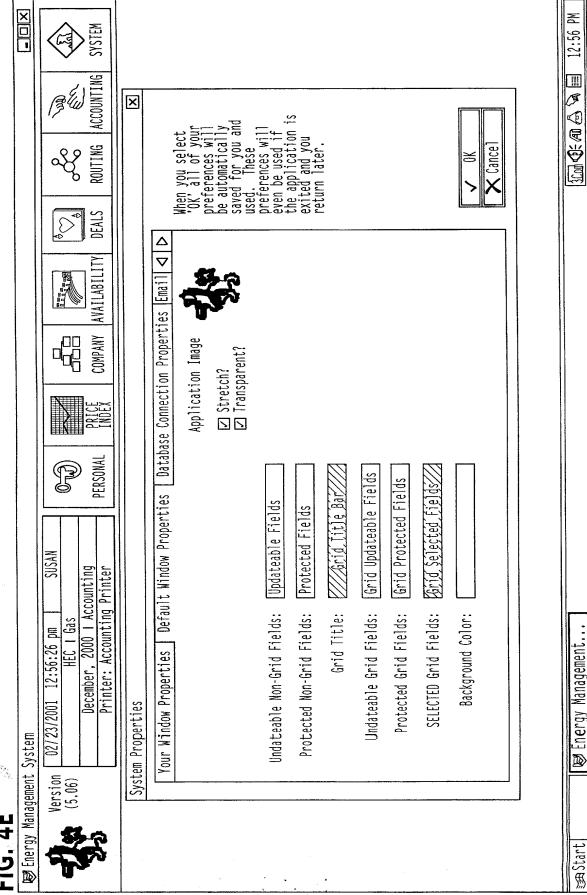
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FIG. 4G



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FIG. 4E



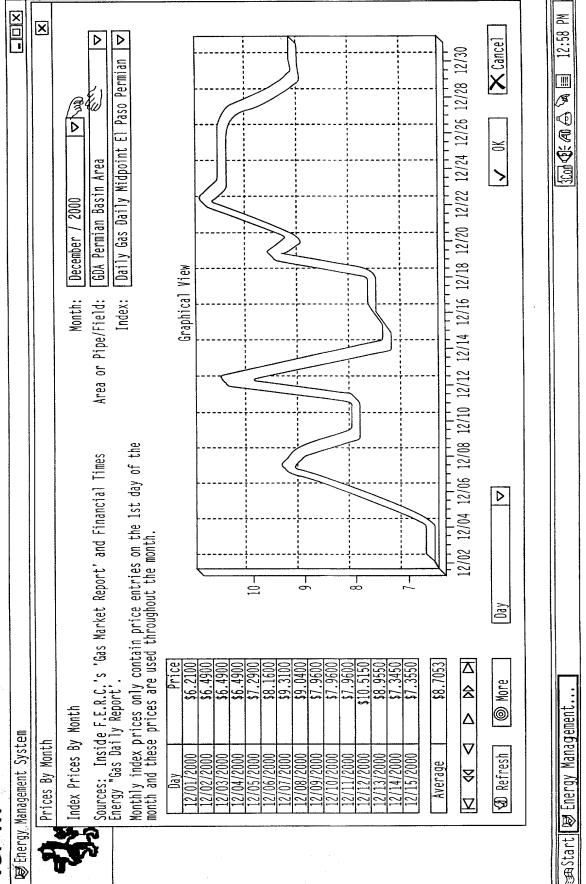
U.S. Application Serial No. 09/895,009
Filed: June 28, 2001
Inventor Equal Properties of the series of the series

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Filed: June 28, 2001
Inventor Equipmentison of Emiliary Emiliary Cour Docket No.: 068.0002
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FIG. 4H



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Add or Update a Contact Person...

the Add or Update a Contract...

Add or Update Contract Products... 100 CO 10 📵 Add or Update Contract Services... Setup Default Standard Reports... म्मि Add or U<u>p</u>date a Contract Group... ROUTING DEALS AVAILABILITY COMPANY PRICE NO EX PERSONAL P December, 2000 I Accounting Printer: Accounting Printer 12:58:30 pm 運Start | 图 Energy Managemen We Energy Management System ■ Version (5.06)

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Filed: June 28, 2001
Inventor: Louis Whomsomy III [11] [12] [13] [13] [13] [13] [14]
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FIG. 4

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FIG. 4K

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FIG. 41

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| 🗷 Energy Management System | Version 02/23/2001 01:01:10 pm (5.06) HEC 1 Gas December, 2000 1 Ac | غ ت ۃ ا | Contract STEC Energy Corporation STEC OIL & GAS PURCHASE | Rollover Rules Correspondance Own General Volumes Prices Their Contact [Janna Calhoun, 71 | Our Contact Leslie Vandagriff, -griff@highlandener \$5.89*MANUAL NB.99 | Comments: | Due: |
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U.S. Application Serial No. 09/895,009 Filed: June 28, 2001

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IG. 4P

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| | | 4 | \$ \f | | | You have the option | of either entering the daily actual | volumes directly next to their | respective day (right side list) OR to use | the volume allocation | of the window). | Pipe/Field and | totals at bottom | should match your | Right click the meter/wel | grid to see other opt | | | dlau | B□ Exit | |
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| | | Nom | 7 1,981.00 | 1.981.00 | 981 | 1,981.00 | 1,981.00 1,981.00 | 981 | 1.981.00 | 1,981.00 | 1,981,00 | 1,301,00 | 1.981.00 | 1.981.00 | 1,981.00 | 1,981.00 | 1 981.00 | 1,981.00 | 1,981.00 | 1,981.00 | |
| | | Deal | Dec 01/ | Dec 02 | Dec 03 | Dec 05 | Dec 06 Dec 07 | 00 00 00 00 00 00 | Dec 11 | Dec 12 Dec 13 | Dec 14 | Dec 16 | Dec 17 | 060 0 | Dec 20 | Dec 21 | Dec 22 | Dec 24 | Dec 25 | Dec 27 Dec 28 | |
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| | | | | Auto Allocate Volume | e rutered | Fctr: 1.000000 | 31 | Match Noms | Company | 59,751.00 3TECENERC | 4,214.00 TOMBROWN | 41,083.00 CHEIFTAIN | 392,909.00 CHIEFTAIN | | . . | C) | 30,000.00 AQUILANER | 3,090.00 AQUILANER | _ | | |
| | | | | , A]]o | M 0 | Fctr: | Thru: 31 | | | 00 3T | 00 | 00 CH | 00 CH | 00 HE(| 0.00 HEC | 0.00 HEC | 00 AQI | 00 AQI | | <u>⊼</u> | |
| | | | | SE SE | SS | | | Prop | Actuals | 9,751. | 4,214. | 1,083. | 2,909. | 1,934.00 HEC | 0. | 0. | 0,000. | 3,090. | | 会 | |
| | | | ation | | <u> </u> | | | Post Prop | | 5 | | 4 | 39 | | | | 3 | | | Δ | |
| | | | Volume Allocation | <u>B</u> 1 | _ | 0 | | Ħ | Act.? | [S] | 2 | <u>></u> | <u>-</u> | <u>\</u> | <u>></u> | <u>></u> | > | > | | ∇ | |
| | | | o] mme | | 0 | 101: | From: | Post | | | | | | | | | | | | 苓 | |
| | | L | | | | | | <u> </u> | | 65105 | 65220 | 65050 | 65370 | 64872 | 64872 | 62059 | 65753 | 65754 | | 区 | |
| | | | 00 | ٥ | (a) | 190 | | ission | | (ACELAND) | | | | Highland Mainline Pool | VSHORE | VSHORE | NSHORE | VSHORE | | | |
| tila]s | . tuu : 3 | | cember / 2000 | rchases | (Accounting Phase | | | Columbia Gulf Transmission | Description | Paradis (ERACELAND | VALENTINE | VM267 A | VM267.A | Highland Ma | HIGHLAND ONSHORE | HIGHLAND ONSHORE | HIGHLAND ONSHORE | HIGHLAND ONSHORE | | | |
| Enter Pine/Field Artuals | וואביוובות ער | | Month: December | Type: Purchases | (Accol | -Lookup By? | ● Pipe ○ Company | Columbia | Motor/Woll | . | 4039 | 4164 | 4164 | P2046107 | P3046107 | P3046107 | P3046107 | P3046107 | ∇ | Meter/Well | |
| Futor | וני | L | | | | | | | ╛╘ | | 1 | <u> </u> | <u> </u> | <u> </u> | <u> </u> | <u> </u> | 1 | | <u> </u> | | _ |
| } | | | | 1 | - | | | | | | | | | | | | | | | | |

FIG. 4Q

× _ 1:00 PM ROUTING ACCOUNTING Monthly Status... Monthly Status Exception Reason Codes... 国 Producer Control Center Messages... About the Energy Management System... ② Locations...
■ Processing Code Types... Standard Report Types... Printers...

Application Images... ☑ Ma<u>n</u>agement Reports...☑ System Reports... DEALS AVAILABILITY COMPANY 全 <u>S</u>etup Users... 图 <u>Se</u>tup System Functions... **語** <u>U</u>pdate User Security Rules... PRICE PERSONAL P December, 2000 I Accounting Printer: Accounting Printer Management... W Energy Management System Version (5.06) 独Start | Ver Energy

Depending on price tag will optionally read index, indexbasket or wasp tables. usp_fGetIndexBasket usp_fGetCalcIndex ead daily/monthly Read index basket. lead index basket. usp_Line Price usp_fGetIndex rice index. .3.1.2 .3.1.3 3.1.1 1.3.1 ation is pricing entries from Engine_Master to Engine. Perform actual calculations for each Engine item. Results returned from line price are updated on the Engine records. This represents a subroutine that will calculate the cost based on the transaction cost variables (value based, mmbtu based, etc.). For each unique product/servicecombination. Sum all sales and routing instructions and BUILD the WASPResolvedRouting table for the calculations that will be occurring in later stages and steps. uto insert WASP and NETBACK prices if needed (Promote A Month Status) usp_PSPricePopulateEngine usp_PSPriceComponentsCheck usp_PSPriceWASPCalcSalesN usp_PSPriceCost usp_PSPrice Inventor: Laurs Marrison; III Our Docket No.: 068.0002 Page 34 of 35 in can Post 1.3 Loops through allproducts and services within the entity. Parameters include month, which price and which volume. Loop through deals within the month and crests/calculate 'Other Cost' entries for each deal. Post these entries on the Engine table with EMS Onlines (Calculates A Month) uppropriate transaction code usp_PSPriceWASPCalc usp_PSPriceCostAl usp_PSPriceAl This is the main calculation 'driver' store procedure. It invokes everything needed to calculate a given month. This routine setting the 'Locked' user information on the reask table to ensure two calculations for the samenth are not run at the same time. the calculation for each month peeded, production months in the 'Sales' or 'I phase are included, The SQL- Server jo scheduler invokes this on a daily basi WASP Calculation Diagram (1 of 2) Stage 1 (Sales Deal Calculations) Stage 2 (WASP Deal Preparations) continued on next page usp_PSPriceAutoMonth Stage 3
(Purchase Deal 'None' F SQL Server Job (usp_PSPriceAuto) Runs Steps 4, 1, 2, 5 Runs Steps 1, 2, 7 Runs Steps

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Filed: June 28, 2001

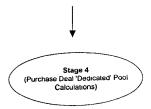
Filed: June 28, 2001.

Inventor: Louis Morrison, III Our Docket No.: 068.0002

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WASP Calculation Diagram (2 of 2)

continued from previous page



Runs Steps 4,1,2



Stage 6 (Transportation Cost Calculations)

Runs Steps

usp_PSPriceWaspCalcResolveDriver

This procedure will loop through each product and service and invoke the resolve routines for each unique combination

4.1 usp_PSPriceWaspCalcResolveN This procedure invokes the iterative process which loops back from all the sales points to originating purchase points 4.1.1 usp_PSPriceWaspCalcResolveSalesN

HIGHLY ITERATIVE process that attempts to track all sales meters back to original purchase meters. The WASPResolvedRouting table is the primary table utilized here

usp_PSPriceWASPDivieOutProceedsN

Move any of the financial proceeds that were overridden to their respective deal OR WASP meters. This takes the profit or (loss) and makes the adjustments Only 3rd party deals can have their proceeds 'divied' The primary table updated through this process is the WASPResolvedRouting table

6

usp_PSPriceTransportAll

This routine will create all of the Gaslinv 'PriceType=3' inventory records and associated Engine (calculated) results These system generated transport costs include transport, gathering, fuel and pvr

7

usp_PSPriceAnyNewInvoicesNeeded

This routine only gets executed if the production month status is set to 'Invoiced'. This routine will ensure that an invoice number gets assigned if no number currently exists (for new sales entires introduced during the actualization phase)